



**LOTRED-SA Pre-congress Training Course**  
 July 7th-8th, 2014 Universidad Eafit, Medellín-Colombia  
**PRELIMINARY PROGRAM**



**Monday 7 July 2014**

Time	Activity	Venue
8:00-9:00	<i>Registration</i>	Hall of Posters
9:00-10:30	Training Course: Module 1	38-222
10:30-11:00	Coffee Break	Hall of Posters
11:00-12:30	Training Course: Module 1	38-222

LUNCH

14:00-16:00	Training Course: Module 2	38-222
16:00-16:30	Coffee Break	Hall of Posters
16:30-17:30	Training Course: Module 2	38-222

**Tuesday 8 July 2014**

Time	Activity	Venue
8:30-10:00	Training Course: Module 3	38-222
10:00-10:30	Coffee Break	Hall of Posters
10:30-12:30	Training Course: Module 3	38-222

LUNCH

14:00-15:30	Training Course: Module 4	38-222
15:30-16:00	Coffee Break	Hall of Posters
16:00-17:30	Training Course: Module 4	38-222
15:00-18:00	<i>Registration Symposium</i>	Hall of Posters
18:00-20:00	<i>Ice break</i>	Hall of Posters



**LOTRED-SA 3<sup>rd</sup> International Symposium “Climate change and human impact in Central and South America over the last 2000 years: Observation and Models”**

July 9th-12th, 2014 Universidad Eafit, Medellín-Colombia

**PRELIMINARY PROGRAM**



**Wednesday 9 July 2014**

	<b>Activity</b>	<b>Speaker</b>	<b>Venue</b>
7:00-9:00	<i>Registration</i>		Hall of Posters
09:00-09.30	Opening Ceremony	EAFIT & PAGES representatives	38-125 Auditorium
09.30-10.30	<b>PAGES 2K INITIATIVE &amp; LOTRED-SA</b>	<i>(Chair C. González)</i>	
09.30-10.00	1. The PAGES 2k initiative and LOTRED-SA: Achievements, challenges and perspectives	Grosjean et al. (Invited talk)	38-125 Auditorium
10.00-10.30	2. Main present hydro-climatic forcing mechanisms in Central and South America at different timescales	Poveda, G. (Invited talk)	
10.30-11.30	POSTER SESSION 1 & <i>Coffee</i> (Grosjean)		Hall of Posters
11.30-12.30	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Ice cores and glaciers)</b>	<i>(Chair R. Villalba)</i>	
11.30-11.50	1. Temperature and rainfall variability in the northern Andes over the last two millennia	Shanahan et al	38-125 Auditorium
11.50-12.10	2. Modes of tropical Andean precipitation seasonality during the Little Ice Age encoded in ice core isotope profiles	Seimon & Perry.	
12.10-12.30	3. Evidence for climate influences on the decline of the pre-Incan Tiwanaku civilization from Illimani ice core	Schwikowski et al.	

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14.00-15.20	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Documentary and tree-ring records)</b>	<i>(Chair R. Villalba)</i>	
14.00-14.20	1. Streamflow variations in subtropical Andes (22°-30°S) inferred from instrumental and tree rings records	Ferrero et al.	38-125 Auditorium
14.20-14.40	2. Documentary sources to study climate variability in Ecuador: first steps	Dominguez-Castro et al.	
14.40-15.00	3. A multi-century tree-ring inference on lake size fluctuations from the Southern Altiplano	Morales et al.	
15.00-15.20	4. A wavelet data analysis of cosmic rays and solar activity in tropical tree-rings	Giraldo & del Valle	
15.20-16.00	POSTER SESSION 2 and <i>Coffee</i> (Martínez)		Hall of Posters
		Kiefer, Villalba &	38-125

16.00-16.40	PAGES 2K BUSINESS MEETING	Grosjean	Auditorium
16.40-18.10	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Oceanic + coastal records)</b>	<i>(Chair M.I. Vélez)</i>	38-125 Auditorium
16.40-17.10	1. Climate variability in the South Atlantic during the last 2K	Evangelista et al. (Invited talk)	
17.10-17.30	2. Dynamic links of the California current variability for the past 2 millennia	Herguera et al.	
17.30-17.50	3. The Colombian Basin as a dilution basin in the Caribbean Sea: ocean – climate connection and implications for the last 2000 years variability	Bernal et al.	
17.50-18.10	4. Paleoceanographic study from the Río de La Plata mud-depocenter, during the last 1,200 yr BP	Laura Pérez	

### Thursday 10 July 2014

	Activity	Speaker	Venue
08.30-10.30	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Oceanic + coastal records)</b>	<i>(Chair J.I. Martínez)</i>	38-125 Auditorium
08.30-09.00	4. Reconstructing dust input to the equatorial Pacific using thorium isotope measurements in marine sediments	Kienast et al. (Invited talk)	
09.00-09.20	5. Late Holocene covariability of the southern Westerlies and sea surface temperature in northern Chilean Patagonia	Bertrand et al.	
09.20-09.40	6. Middle to late Holocene relative sea level rise, climate variability and environmental change along the Colombian Caribbean	Velez et al.	
09.40-10.00	7. Southwestern Caribbean mangroves and climate change during the late Holocene	Urrego L.E. et al.	
10.00-11.00	POSTER SESSION 3 & <i>Coffee</i> (González)		Hall of Posters
11.00-11.50	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Speleothems)</b>	<i>(Chair M. Vuille)</i>	38-125 Auditorium
11.00-11.30	1. Patterns of precipitation variability during last 2ky in tropical South America based on speleothem isotope records	Cruz et al. (Invited talk)	
11.30-11.50	2. New insights in the South American monsoon system variability over the last 1400 years based on speleothem records collected in the eastern Andes of Peru and Bolivia	Apaéstegui et al.	
11.50-12.30	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Hydrological and vegetation changes)</b>	<i>(Chair C. González)</i>	

11.50-12.10	1. Hydroclimate variations in northwestern Patagonia (41°s) at centennial and millennial timescales since 10 ka	Moreno & Videla	
12.10-12.30	2. Hydrological changes on the equatorial Páramos during the last 2ka	Ledru et al.	

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14.00-14.40	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Hydrological and vegetation changes)</b>	<i>(Chair S. Flantua)</i>	
14.00-14.20	3. Long-term vegetation responses to environmental changes across two Neotropical diversity hotspots– a multi-site comparison	Jantz	
14.20-14.40	4. Forest and grassland dynamics in southern Brazil – the role of climate, fire and human impact during the last 2000 yr	Behling	
14.40-15.30	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Lake sediments)</b>	<i>(Chair G.Bernal)</i>	38-125 Auditorium
14.40-15.10	1. Late Holocene Lake sediment records in Meso- and Central America	Caballero et al. (Invited talk)	
15.10-15.30	2. Paleoenvironmental changes over the last 2000 years in the central Andes recorded by high-altitude peatlands	Schitteck et al.	
15.30-16.30	POSTER SESSION 4 & <i>Coffee</i> (Villalba)		Hall of Posters
16.30-18.10	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Lake sediments)</b>	<i>(Chair J. Escobar)</i>	
16.30-16.50	3. Warm season temperature variability inferred from sedimentary photopigments and chrysophyte stomatocysts in Laguna Escondida, Chile (38.5°s) since AD 770	Schneider et al.	
16.50-17.10	4. Vegetation, fire and climate over the last 1800 yrs in central west Patagonia revealed by the Lago Mellizas record (45°S)	Villa-Martínez et al.	
17.10-17.30	5. Past climate variability during the last 1500 cal yr at Pampa plain (southern South America) based on multiproxy analysis	Tonello et al.	38-125 Auditorium
17.30-17.50	6. Diatom diversification, extinction, and dispersal in an ancient tropical lake system	Fritz & Spanbauer	
17.50-18.10	7. Holocene climate changes and vegetation asymmetric responses in northwestern Colombia with focus in the last 4000 years	Velásquez et al.	

## Friday 11 July 2014

	Activity	Speaker	Venue
08.30-9.40	<b>PALEOCLIMATIC RECORDS: CONTINENTAL-MARINE (Lake sediments)</b>	<i>(Chair M. Caballero)</i>	
08.30-09.00	1. Environmental changes during the last thousands years in the South American tropics: what do continental geomorphologic and sedimentary records tell us?	Latrubesse (Invited talk)	
09.00-09.20	2. Eastern Andean environmental and climate synthesis for the last 1500 years BP from terrestrial pollen and charcoal records of Patagonia	Sottile et al.	38-125 Auditorium
09.30-10.00	<b>MODELING PAST CLIMATES</b>	<i>(Chair M. Rojas)</i>	
09.30-10.00	1. South American summer monsoon reconstruction over the past millennium from isotopic proxies	Vuille et al. (Invited talk)	
10.00-11.00	POSTER SESSION 5 & <i>Coffee</i> (Latorre)		Hall of Posters
11.00-12.30	<b>MODELING PAST CLIMATES</b>	<i>(Chair M. Vuille)</i>	
11.00-11.30	2. Variability in the South American monsoon from climate model simulation of the last millennium	Rojas et al. (invited talk)	
11.30-12.00	3. Last millennium South American decadal climate variability in models and observations: Teleconnections with global climate modes	Khodri et al.	38-125 Auditorium
12.00-12.20	4. Impact of volcanic forcing on monsoon precipitation over central South America	Stríkis et al.	

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14.00-15.30	<b>HUMAN - CLIMATE INTERACTIONS</b>	<i>(Chair S. Archila)</i>	
14.00-14.30	1. Climate versus human controls of fire in neotropical ecosystems during the past two millennia	Power et al. (Invited talk)	
14.30-14.50	2. Interplay of environmental and human drivers in the development of southern Gran Sabana (SE Venezuela) landscape during the last 2000 years: Lake Encantada record	Ballesteros et al.	38-125 Auditorium
14.50-15.10	3. Pre-Columbian anthropogenic impact in southwest Amazonia: The case of the earthwork builders	Watling et al.	

15.10-15.30	4. A 650 yr rodent midden record of past rainfall variability from the arid prepuna of northernmost Chile (18°S latitude): Implications for relict plant communities and regional human abandonment	Latorre et al.	
15.30-15.50	5. Mid-Holocene water availability in the Atacama Desert, Chile, recorded in tree ring oxygen isotope variability at the Ramaditas archaeological site: Evidence for climate change and anthropogenic landscape alteration	Olson et al.	
15.50-16.20	<i>Coffee</i>		Hall of Posters
16.20-17.50	<b>DATA INTEGRATION AND REGIONAL SYNTHESSES</b>	<i>(Chair M. Grosjean)</i>	
16.20-16.50	1. Temporal and spatial quality assessment of the updated Latin American pollen database for the last 2000 years	Flantua et al. (Invited talk)	
16.50-17.20	2. Pan-Andean lake records of Late Holocene South American Summer Monsoon Variability from the Colombian and Peruvian Andes: An Inter-Hemispheric Perspective	Bird et al. (Invited talk)	38-125 Auditorium
17.20-17.50	3. Advances in climate field reconstruction, phase 2 of the North America 2K project, and their relevance to South America 2K	McKay, N. (Invited talk)	
17.50-18.30	<b>CLOSURE</b>		38-125 Auditorium



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